

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534428

Luminaire Tested: **GALN-SA9D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46744 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

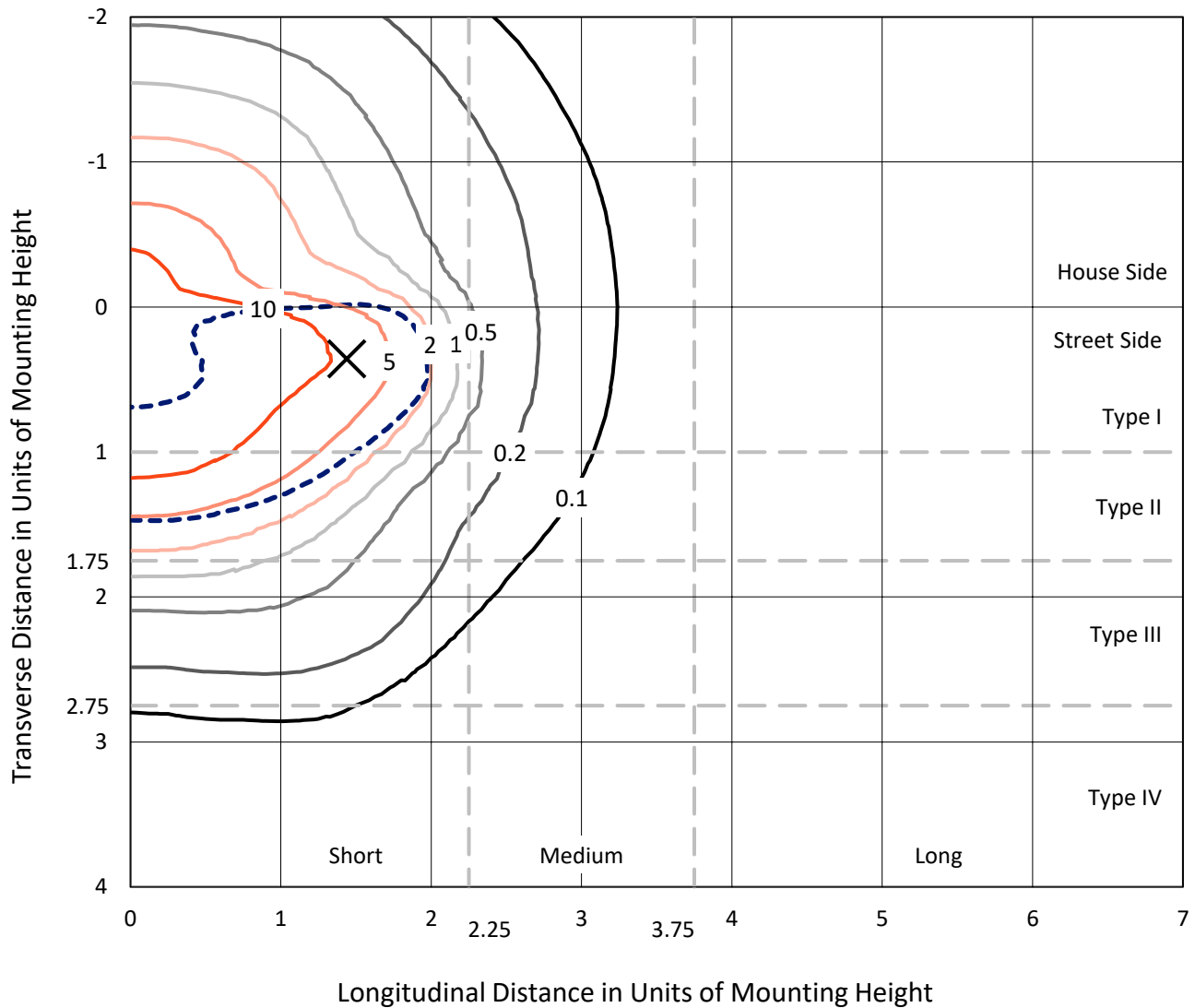


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

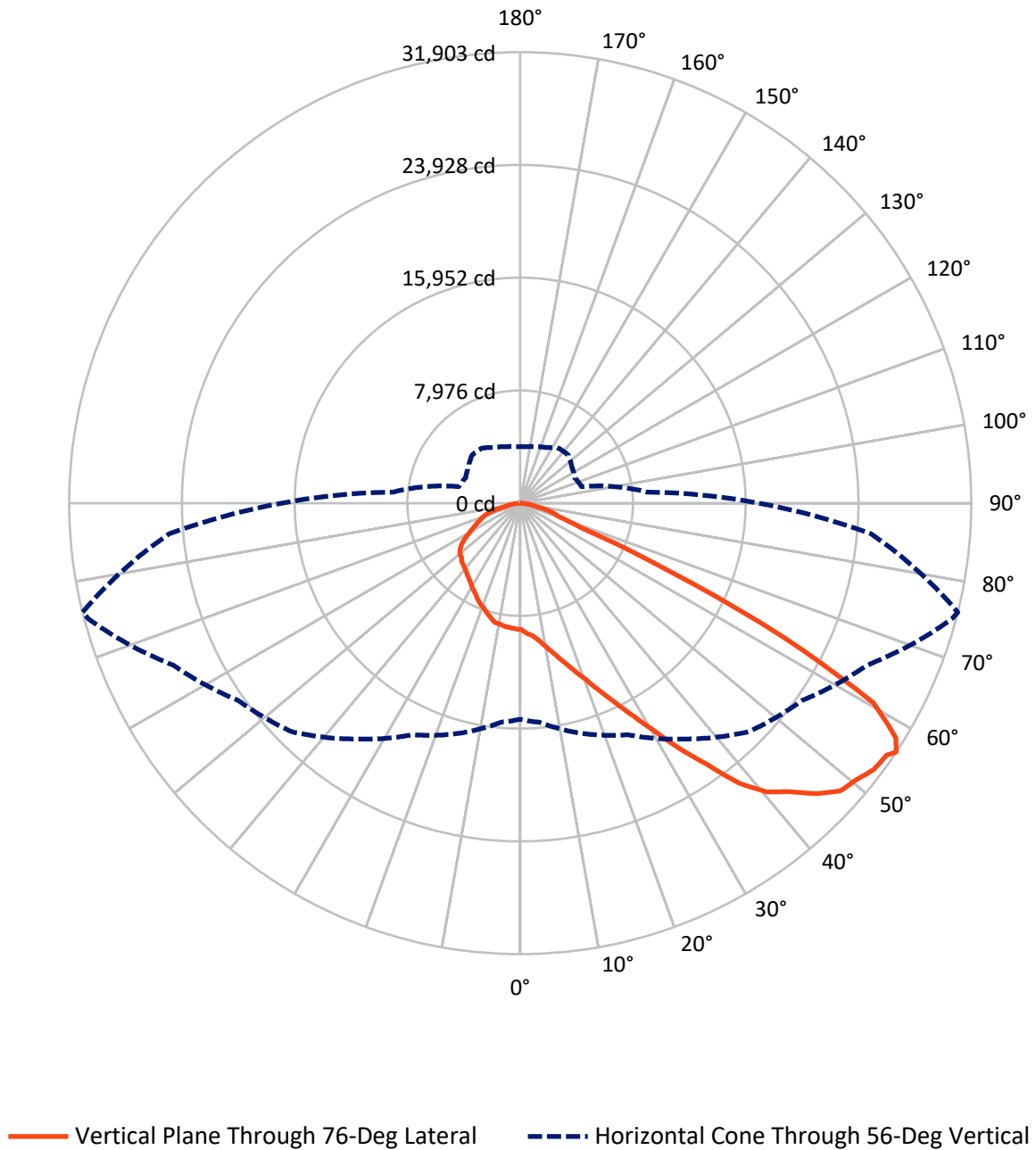


Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12568.1	0.0	12568.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	34175.9	0.0	34175.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	46744.0	0.0	46744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.0	1.9
10°-20°	2786.2	6.0
20°-30°	4872.8	10.4
30°-40°	7629.3	16.3
40°-50°	11098.5	23.7
50°-60°	12197.9	26.1
60°-70°	5444.6	11.6
70°-80°	1572.6	3.4
80°-90°	255.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	46744.0	100.0
0°-180°	46744.0	100.0

Coefficient of Utilization



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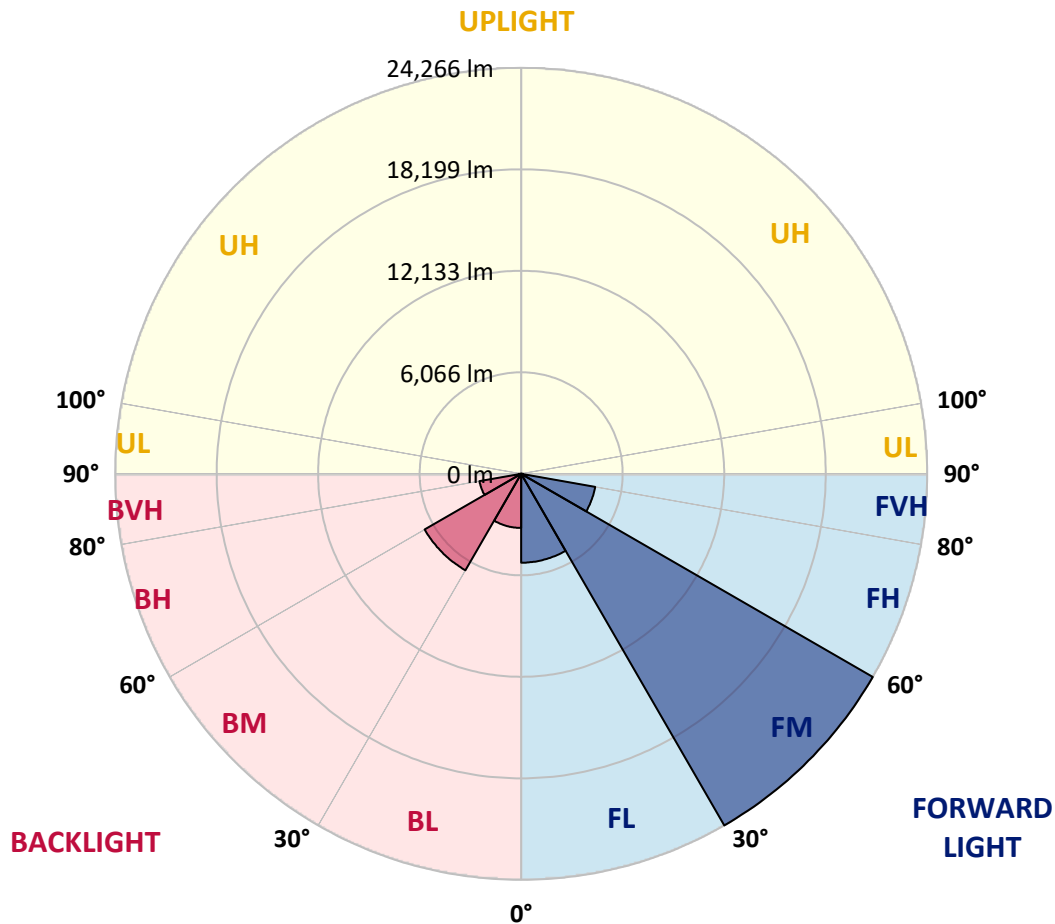
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5311.9	11.4			
FM	(30°-60°)	24265.7	51.9			
FH	(60°-80°)	4488.5	9.6			G2/5000
FVH	(80°-90°)	109.8	0.2			G2/225
BL	(0°-30°)	3234.0	6.9	B4/5000		
BM	(30°-60°)	6660.1	14.2	B4/8500		
BH	(60°-80°)	2528.7	5.4	B4/5000		G4/5000
BVH	(80°-90°)	145.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9
2.5°	9852.8	9695.2	9683.1	9640.7	9664.9	9555.9	9440.7	9289.3	9131.7	9228.7	8998.4
5°	10543.6	10331.5	10416.3	10270.9	10289.1	10143.7	9907.3	9731.6	9537.7	9422.6	9259.0
7.5°	10786.0	10804.1	10864.7	10840.5	10719.3	10719.3	10561.8	10252.7	9913.4	9846.7	9574.1
10°	11113.2	11119.2	11052.6	11070.8	11240.4	11161.7	11022.3	10889.0	10452.7	10373.9	9889.2
12.5°	11228.3	11119.2	11228.3	11325.3	11525.2	11634.3	11604.0	11507.0	11040.5	10985.9	10277.0
15°	11246.5	11179.8	11270.7	11488.9	11664.6	12125.1	12355.4	12288.7	11670.7	11676.7	10713.2
17.5°	11161.7	11252.5	11288.9	11476.7	11882.7	12313.0	12979.5	13070.4	12561.4	12482.6	11264.7
20°	11276.8	11210.1	11258.6	11428.3	11967.6	12640.2	13512.7	14112.6	13397.6	13343.1	11834.3
22.5°	11719.1	11628.2	11616.1	11725.2	12113.0	12809.8	14076.3	15154.9	14415.6	14445.9	12543.2
25°	12064.5	12113.0	12070.6	12064.5	12306.9	13064.3	14821.6	16397.1	15797.2	15621.5	13379.4
27.5°	12658.4	12773.5	12688.7	12803.8	12749.2	13446.1	15354.8	17772.6	17287.8	17051.5	14136.9
30°	13482.5	13543.0	13464.3	13464.3	13300.7	13979.3	15839.6	19208.7	19008.7	18687.6	15027.6
32.5°	14567.1	14658.0	14500.5	14409.6	14385.3	14773.1	16712.2	20626.6	20966.0	20693.3	16209.2
35°	16003.2	15948.7	15760.8	15676.0	15348.8	15991.1	18008.9	22256.6	23147.4	22662.6	17639.3
37.5°	17269.7	17184.8	17172.7	16700.1	16778.8	17306.0	19111.8	23492.8	25262.2	25122.8	19148.1
40°	18451.3	18530.0	18657.3	18390.7	18269.5	18851.2	20396.4	24438.1	26904.3	26849.8	20311.5
42.5°	19717.7	19645.0	19869.2	19645.0	19463.2	20287.3	21790.1	25092.5	28346.5	27898.1	21529.5
45°	21553.7	21323.5	21402.3	21420.4	21287.1	21590.1	22365.7	25565.2	29358.4	29309.9	22420.3
47.5°	23086.8	23092.9	22959.6	22856.5	22450.6	22753.5	23008.0	25862.1	30521.8	30443.1	22765.6
50°	23656.4	23577.6	23965.4	24189.6	24213.9	23595.8	23511.0	26025.7	31133.9	30788.5	23111.0
52.5°	21608.3	21681.0	22293.0	23626.1	24395.7	24462.3	24098.7	26365.0	31382.3	31309.6	23389.8
55°	17390.8	17742.3	18748.2	20287.3	22111.2	24116.9	24735.0	26716.5	31515.6	31455.0	24625.9
56°	15288.2	15560.9	16869.7	18075.6	20366.1	22862.6	24335.1	27092.2	31618.6	31903.4	24916.8
57.5°	12306.9	12622.0	13561.2	14930.7	17633.2	20475.1	23232.2	26631.6	31218.7	31327.8	25128.9
60°	7695.6	7725.9	8853.0	9755.8	11658.5	14433.8	17730.2	23171.6	28891.8	28734.3	22571.7
62.5°	5047.6	5053.6	6077.7	6817.0	7683.5	8319.7	10434.5	15367.0	21317.4	21038.7	16069.9
65°	3544.8	3623.6	4417.4	5405.1	5756.6	5423.3	5356.6	8101.6	11907.0	11507.0	8634.8
67.5°	2593.5	2599.5	3302.4	4362.9	4871.9	4126.5	3350.9	3956.9	4714.3	4702.2	3999.3
70°	1714.8	1787.6	2326.9	3260.0	3841.7	3314.6	2738.9	2829.8	2999.5	2999.5	2975.2
72.5°	999.8	1066.5	1424.0	2066.3	2157.2	2072.4	2169.3	2423.8	2532.9	2526.8	2496.5
75°	569.6	599.9	678.7	860.5	1072.5	1266.4	1593.7	1836.0	1945.1	2011.8	1933.0
77.5°	333.3	351.5	399.9	490.8	557.5	684.7	866.5	1036.2	1181.6	1163.4	1175.5
80°	175.7	175.7	224.2	290.9	387.8	484.8	575.7	672.6	751.4	769.6	787.7
82.5°	103.0	109.1	145.4	212.1	278.7	345.4	442.3	509.0	581.7	587.8	599.9
85°	54.5	60.6	90.9	139.4	187.8	212.1	218.1	206.0	224.2	212.1	242.4
87.5°	18.2	18.2	30.3	24.2	24.2	30.3	36.4	36.4	48.5	48.5	48.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9	8943.9
2.5°	8992.3	8992.3	8889.3	8695.4	8665.1	8586.4	8513.6	8507.6	8453.0	8404.6	8380.3
5°	9162.0	8974.2	8822.7	8646.9	8440.9	8344.0	8234.9	8113.7	8065.2	8113.7	8107.6
7.5°	9355.9	9198.4	8743.9	8416.7	8180.4	8083.4	7962.2	7835.0	7847.1	7847.1	7762.3
10°	9543.8	9331.7	8604.5	8186.4	7841.0	7768.3	7701.7	7750.1	7810.7	7822.9	7768.3
12.5°	9858.9	9380.2	8537.9	7956.2	7738.0	7580.5	7622.9	7756.2	7883.4	7847.1	7889.5
15°	10095.2	9422.6	8234.9	7719.8	7447.2	7519.9	7671.4	7762.3	7974.3	7950.1	7992.5
17.5°	10325.4	9446.8	7938.0	7404.7	7289.6	7489.6	7604.7	7865.3	7931.9	8077.4	8131.9
20°	10798.1	9495.3	7635.0	7210.8	7174.5	7404.7	7604.7	7725.9	7871.3	7998.6	7998.6
22.5°	11040.5	9471.0	7435.0	6956.3	7071.5	7216.9	7398.7	7604.7	7604.7	7725.9	7732.0
25°	11343.4	9374.1	7119.9	6835.1	6920.0	7059.4	7265.4	7192.7	7271.4	7271.4	7368.4
27.5°	11688.8	9168.1	6847.3	6617.0	6786.7	6938.2	6968.5	6920.0	6829.1	6817.0	6780.6
30°	11967.6	8913.6	6647.3	6544.3	6683.7	6768.5	6671.5	6568.5	6411.0	6398.9	6314.0
32.5°	12349.3	8598.5	6398.9	6362.5	6520.1	6526.1	6495.8	6338.3	6108.0	6011.1	5914.1
35°	12991.6	8416.7	6211.0	6265.6	6314.0	6295.9	6241.3	6071.6	5841.4	5799.0	5762.6
37.5°	13464.3	8283.4	6017.1	6083.8	6126.2	6150.4	5986.8	5799.0	5805.0	5720.2	5696.0
40°	13997.5	8198.5	5859.6	5889.9	5895.9	5974.7	5774.7	5683.8	5726.3	5671.7	5708.1
42.5°	14682.2	8222.8	5696.0	5671.7	5786.8	5756.6	5659.6	5538.4	5562.6	5399.0	5423.3
45°	15045.8	8386.4	5599.0	5489.9	5617.2	5611.1	5483.9	5368.7	5223.3	4908.2	4920.3
47.5°	15288.2	8428.8	5368.7	5296.0	5429.3	5508.1	5362.7	5096.1	4890.0	4665.8	4611.3
50°	15536.6	8507.6	5259.7	5108.2	5162.7	5350.6	5168.8	4914.3	4714.3	4514.3	4544.6
52.5°	15754.8	8659.1	5047.6	4823.4	4920.3	5126.4	5029.4	4720.4	4502.2	4338.6	4290.1
55°	16724.3	8998.4	4690.1	4399.2	4629.5	4890.0	4835.5	4459.8	4223.5	4138.7	4126.5
56°	16875.8	9010.5	4502.2	4253.8	4465.9	4811.3	4744.6	4344.7	4132.6	3999.3	4005.3
57.5°	16900.0	8865.1	4235.6	4120.5	4302.3	4696.1	4611.3	4253.8	3962.9	3841.7	3805.4
60°	14870.1	6920.0	3902.3	3829.6	4041.7	4344.7	4314.4	4005.3	3678.1	3538.8	3605.4
62.5°	10137.6	5071.8	3641.8	3629.7	3738.7	4035.6	3956.9	3678.1	3405.5	3314.6	3272.1
65°	5902.0	3847.8	3387.3	3338.8	3429.7	3587.2	3641.8	3350.9	3066.1	3005.5	2987.3
67.5°	3484.2	3181.3	3060.1	2981.3	2951.0	3047.9	3090.4	2920.7	2635.9	2551.1	2623.8
70°	2914.6	2829.8	2835.9	2702.5	2629.8	2563.2	2526.8	2375.3	2139.0	2029.9	1999.6
72.5°	2514.7	2478.3	2454.1	2332.9	2266.3	2114.8	1957.2	1805.7	1630.0	1539.1	1545.2
75°	1920.9	1908.8	1920.9	1860.3	1745.1	1624.0	1478.5	1284.6	1151.3	1036.2	1060.4
77.5°	1145.3	1181.6	1199.8	1175.5	1127.1	1018.0	927.1	799.9	672.6	581.7	569.6
80°	787.7	818.0	848.3	818.0	769.6	690.8	593.8	496.9	406.0	357.5	345.4
82.5°	599.9	630.2	648.4	618.1	557.5	472.6	406.0	339.3	266.6	218.1	206.0
85°	218.1	248.4	242.4	290.9	315.1	303.0	260.6	200.0	151.5	109.1	103.0
87.5°	60.6	54.5	60.6	60.6	60.6	54.5	48.5	48.5	48.5	30.3	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)